BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Construction of Tank and Providing Pump set for de-watering in flood areas in ward no. 05, Jakkur Byatarayanapura Sub Division**

Estimated Cost : 40.00 Lakhs

ಅಂದಾಜು ಪಟ್ಟಿಯ ವರದಿ

ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 05(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Construction of Tank and Providing Pump set for de-watering in flood areas in ward no. 05, Jakkur Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 05(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Construction of Tank and Providing Pump set for de-watering in flood areas in ward no. 05, Jakkur Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ರೂ. 40.00 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ 2022-23 ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಲೆಕ್ಕಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಕಾಮಗಾರಿ ಕ್ರಿಯ ಯೋಜನಾ ಪಟ್ಟಿಯಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿರುತ್ತದೆ. ಹಾಗೂ ಸದರಿ ಕಾಮಗಾರಿಯು ದಿನಾಂಕ: 30.07.2022 ರಂದು ಯಲಹಂಕ ವಲಯದಲ್ಲಿ ಮಾನ್ಸೂನ್ ಕಾರ್ಯಪಡೆ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ತೋಟಗಾರಿಕೆ ಇಲಾಖೆಯ & ಯೋಜನೆ ಕಾರ್ಯಕ್ರಮ ಸಂಯೋಜನೆ, ಸಾಂಖಿಕ ಇಲಾಖೆ ಹಾಗೂ ಕೋಲಾರ ಜಿಲ್ಲಾ ಉಸ್ತುವಾರಿ ಸಚಿವರು ರವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ನಡೆದ ಸಭೆಯಲ್ಲಿ ರೂ. 40.00 ಲಕ್ಷಗಳಿಗೆ ಸಭಾ ನಡವಳಿಯ ಪಟ್ಟಿಯ ಕ್ರಮ ಸಂಖ್ಯೆ. 7 ರಲ್ಲಿ ಅನುಮೋದನೆ ನೀಡಿರುತ್ತಾರೆ.

ಅದರಂತೆ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಮಳೆಗಾಲದಲ್ಲಿ ತಗ್ಗು ಪ್ರದೇಶದಲ್ಲಿ ನೀರು ಸಂಗ್ರಹವಾಗುವ ಪ್ರದೇಶಗಳಲ್ಲಿ ತಾತ್ಕಾಲಿವಾಗಿ ಸಂಗ್ರಹವಾಗಿರುವ ಮಳೆ ನೀರನ್ನು ಸಂಪ್ ಟ್ಯಾಂಕ್ ನಿರ್ಮಾಣ ಮಾಡಿ ನೀರನ್ನು ಹೊರಹಾಕಲು ವ್ಯವಸ್ಥೆ ಕಲ್ಪಿಸಲು ಸಂಪ್ ಟ್ಯಾಂಕ್ ನಿರ್ಮಾಣ ಮಾಡಿ ಮೋಟಾರ್ ಇತ್ಯಾದಿ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ತಗ್ಗು ಪ್ರದೇಶಗಳಲ್ಲಿ ನೀರು ತುಂಬವ ಪ್ರದೇಶಗಳಲ್ಲಿ ಸಂಪ್ ಟ್ಯಾಂಕ್ ನಿರ್ಮಾಣ ಮಾಡುವುದು.
2. ನೀರನ್ನು ಹೊರಸಾಗಿಸಲು ಪಂಪು ಮತ್ತು ಮೋಟರ್ ಒದಗಿಸುವುದು.
3. ಎಂ.ಎಸ್ ಬಾಕ್ಸ್ ಒದಗಿಸುವುದು.
4. ಎಲ್.ಟಿ.ಯು.ಜಿ ಕೇಬಲ್ ಒದಗಿಸುವುದು.
5. ಪಿ.ವಿ.ಸಿ ಕೇಬಲ್ ಅಳವಡಿಸುವುದು.
6. ರಸ್ತೆಗೆ ಡಾಂಬರೀಕರಣ ಮಾಡುವುದು
7. ಇತ್ಯಾದಿ ಅವಶ್ಯಕ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಬೆಂಗಳೂರು ವೃತ್ತ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, 2021-22, Vol-I, II & III and CSR 2018-19 and Data Rate ದರಗಳನ್ನು ಹಾಗೂ ಅನುಮೋದಿತ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ 2022-23ನೇ ಸಾಲಿನ ಅನುದಾನದ ಲೆಕ್ಕ ಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಅಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ಕಾಮಗಾರಿಯನ್ನು ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ತಮ್ಮಲಿ ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Tank and Providing Pump set for de-watering in flood areas in ward no. 05, Jakkur Byatarayanapura Sub Division

Sl No	Description of Items	Unit	No	Length m	Width m	Depth m	Quantity	Rate	Amount
	Civil Work								
1	**Earth work excavation** by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m **(PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.1)**								
a	**For Dewatering sump**								
	Kempegowda Layout	cum	1	4.00	7.50	2.45	73.50		
b	**RCC drain**								
	Kempegowda Layout	Cum	1	10.00	1.10	0.90	9.90		
c	**Inlet chamber**		1	2.50	1.50	1.00	3.75		
d	**For drain desilting**		2	270.00	1.80	1.00	972.00		
e	**for new culverts**								
	at junction	cum	1	15.00	1.80	0.95	25.65		
			1	10.00	1.40	0.95	13.30		
							1,098.10	**213.90**	**234883.59**
	Basic rate	**186.00**							
	Add 5 % for dewatering	**9.30**							
	Area weightage 10%	18.60							
	Total	**213.90**							
2	KSRB 2.8 : Providing and Filling in foundation with **granite / trap broken metal 100mm**. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. **(PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)**								
	For sump								
	Kempegowda Layout	cum	1	4.00	7.50	0.30	9.00		
							9.00	**2817.10**	**25353.90**
	Basic rate	**2561.00**							
	Area weightage 10%	**256.1**							
	Total	**2817.1**							
3	Providing and laying in position **plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix **1:3:6 (M10) Using 40** mm nominal size graded crushed coarse aggregates. Specification **(PWD SR 2021-22 Vol -I Pg 15 item no.2.1.3)**								
a	**For Dewatering sump**								
	Kempegowda Layout	cum	1	4.00	7.50	0.20	6.00		
b	**RCC drain**								
	Kempegowda Layout	Cum	1	10.00	1.10	0.15	1.65		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
				m	m	m			
c	**For drain bed correction**		1	270.00	1.80	0.15	72.90		
d	**for new culverts**								
	at junction	cum	1	15.00	1.80	0.15	4.05		
			1	10.00	1.40	0.15	2.10		
							86.70	**6109.40**	529684.98
	Basic rate	5554.00							
	Area weightage 10%	555.40							
	Total	**6109.40**							
4	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. **(PWD SR 2021-22 Vol -II Pg 17**								
	For sump								
a	Kempegowda Layout- Long wal	Sqm	4	7.00		1.80	50.40		
	short wall		4	2.70		1.80	19.44		
b	Inlets		1	2.50		1.00	2.50		
			1	1.50		1.00	1.50		
							73.84	**1315.60**	**97,143.90**
	Basic rate	1196.00							
	Area weightage 10%	119.60							
	Total	**1315.60**							
5	**Providing Flush / Ruled/ Struck or weathered pointing Pointing** on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineerin- charge .**(PWD SR 2021-22 Vol -II Pg 44 item no 8.17.1)**								
a	Kempegowda Layout	**sqm**	2	2.70		1.80	9.72		
			2	6.20		1.80	22.32		
	Inlets		1	2.50		1.00	2.50		
			1	1.50		1.00	1.50		
							36.04	**151.80**	**5,470.87**
	Basic rate	138.00							
	Area weightage 10%	13.80							
	Total	**151.80**							
6	Providing and laying in position **Reinforced cement concrete** for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA). **(PWD SR 2021-22 Vol -I Pg 15 item**								
	For sump								
a	Kempegowda Layout - Roof Slab	Cum	1	3.50	7.05	0.15	3.70		
	for bottom concrete		1	6.20	2.70	0.15	2.51		
							6.21	**7892.28**	49,028.82
	Basic rate	5979.00							
	Add 20% For Shuttering	1195.80							
	Sub Total	**7174.80**							
	Area weightage 10%	717.48							
	Total	**7892.28**							

Sl No	Description of Items	Unit	No	Length m	Width m	Depth m	Quantity	Rate	Amount
7	Prc ding and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, **Drain works & other parallel works** from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no**								
	Drain Bottom Raft	Cum							
	Kempegowda Layout		1	10.00	1.10	0.15	1.65		
	side wall								
	Kempegowda Layout		1	10.00	0.15	0.70	1.05		
e	**for new culverts bottom**								
	at junction	cum	1	15.00	1.80	0.15	4.05		
			1	10.00	1.40	0.15	2.10		
e	**for new culverts side wall**								
	at junction	cum	1	15.00	0.30	0.15	0.68		
			1	10.00	0.30	0.15	0.45		
							9.98	**6893.04**	68,758.07
	Basic rate	5968.00							
	Add 5% for Shuttering	298.40							
		6266.40							
	Area weightage 10%	626.64							
	Sub Total	**6893.04**							
8	Providing Thermo-Mechanically **Treated bars of grade Fe-500D or** more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). **(PWD SR 2021-22 Vol -II Pg 84 item no 11.32)**								
	For Sump roof slab	Cum					6.21		
		kg	Steel assumed 120 Kg/Cum of Concrete				**745.47**		
	Basic rate	96.00							
	Area weightage 10%	9.60							
	Total	**105.60**					**745.47**	**105.6**	78721.63
9	Supplying, Fitting and Placing **TMT Fe550 bar Reinforcement** in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol -III Pg 99 item no 13.1)**								
	For Drain	Cum					9.98		
		kg	Steel assumed 60Kg/Cum of Concrete				598.50		
		tonne					**0.60**	**101387.00**	60680.12
	Basic rate	92170.00							
	Area weightage 10%	9217.00							
	Sub Total	**101387.00**							
10	Providing and Fixing **pre cast covering Slab 100mm** thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
				m	m	m			
a	Ke. pegowda Layout	sqm	1	10.00	0.90		9.00		
	missing slabs		2	15.00	0.90		27.00		
							36.00	**2072.00**	**74,592.00**
	Data rate	**2072.00**							
11	Providing and Fixing **pre cast covering Slab 230mm thick** made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)								
	Kempegowda Layout		1	10.00	1.20		12.00		
		Sqm	1	15.00	1.20		18.00		
							30.00	**5037.00**	**151110.00**
	Data rate	**5037.00**							
	Total								
12	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
	Excavated Earth	Cum	From Item No.1				**1098.10**	81.40	**89385.34**
	Basic rate	74.00							
	Area weightage 10%	7.40							
	Total	**81.40**							
13	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-5	t.Km					**1098.10**	115.50	**126830.55**
	Basic rate	105.00							
	Area weightage 10%	10.50							
	Total	**115.50**							
14	Providing Lubi make 10 HP 3 Phase dewatering submersible pump with outlet 4"								
	10 hp	No	1				**1**	106525.00	**106525.00**
15	**Providing 160 mm PVC pipe** 6 kg/sqcm	mtr	15				**15**	900.00	**13500.00**
16	Providing and fixing 160 mm PVC elbow	No	5				**5**	525.00	**2625.00**
17	**Providing** and fixing 160 mm PVC collar	No	3				**3**	370.00	**1110.00**
18	**Provding** and fixing 160 mm PVC ball wall	No	2				**2**	4350.00	**8700.00**
19	**Providing** and fixing MS gate of size 0.6x0.6 mtr	No	1				**1**	9000.00	**9000.00**
20	**Providing** MS cover with frame of size 0.9x0.9 mtr	No	1				**1**	8000.00	**8000.00**
21	**Supplying of 1.1KV LT UG cable** XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core								
	Kempegowda Layout	**Rmtr**	1	20.00			20.00		
							20.00	150.00	**3000.00**
22	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. (Ele SR OF 2019-20 P-No 41 I/No-6.5.1)								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
				m	m	m			
	Kempegowda Layout	**Rmtr**	1	20.00			20.00		
							20.00	11.88	237.60
23	**Supplying and drawing 3 core flat PVC sheathed** submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 **(PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.2.6.4)**								
	Kempegowda Layout	**Mtr**	1	20.00			20.00		
							20.00	242.00	**4840.00**
24	**Supplying fully automatic star-delta starte**r unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP **(PWD Electrical SR 2022-23 Vol-VI Page No.10,**								
		Each	1				1	8640.00	**8640.00**
25	**Fabricating supplying and mounting MS box of 16 SWG** suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. **(PWD Electrical SR 2022-23 Vol-VI Page No.15, Item No.5.42.2)**								
	Outdoor box	sq.cm	1	1100.00	20.00		**22000**	0.38	**8360.00**
26	**Labour charges for erection of outdoor** type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. **(PWD SR 2021-22 Vol-V Page No.163, Item No.40)**								
		job	1				1	1390.5	**1390.50**
	Basic Rate	1350							
	3% AW	40.5							
	Total Rate	1390.5							

Sl No	Description of Items	Unit	No	Length m	Width m	Depth m	Quantity	Rate	Amount
	Road work								
27	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead (V-Iii, P.No-15, I No-3.5)								
		Sqm							
	Ch -0-300		1	50.00	9.00		450.00		
							450.00	**4.40**	**1,980.00**
	Basic rate	4.00							
	10% AW	0.40							
	Sub Total	4.40							
28	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work (V-I, P.No-8, I No-								
		Cum							
	New Asphalt								
	Ch -0-300		1	50.00	9.00	0.10	45.00		
							45.00	**120.78**	**5,435.10**
	Basic rate	65.00							
	5Km lead= (1.28*7*5)	44.80							
	sub total	109.80							
	10% AW	10.98							
	Total	120.78							
29	Construction of Granular Sub-Base of required grading as per design spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with front end loader at OMC and compacting with vibratory roller to achieve the desired density, complete as per clause 401 B.Place Mix Method (v) For Grading -V Material (V-III No-4.2 ,P No-19 of PWD BCSR 2021-22)								
		Cum							
	New Asphalt								
	Ch 150 - 230		1	50.0	9.0	0.15	67.5		
							67.50	**2457.40**	**1,65,874.50**
	Basic rate	2234.00							
	10% AW	223.40							
	Sub Total	2457.40							
30	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III No-4.27 A,P No-24 of PWD BCSR 2021-22)								
		Cum							
	New Asphalt								
	Ch -0-300		1	50.00	9.00	0.25	112.5		
							112.50	**2633.40**	**2,96,257.50**
	Basic rate	2,394.00							
	10% AW	239.40							

Sl No	Description of Items	Unit	No	Length m	Width m	Depth m	Quantity	Rate	Amount
	Sub Total	**2,633.40**							
31	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III No-5.1 A,P No-29 of PWD BCSR 2021-22)								
		Sqm							
	New Asphalt								
	Ch -0-300		1	50.00	9.00		450.00		
							450.00	**48.40**	**21,780.00**
	Basic rate	44.00							
	10% AW	4.40							
	Sub Total	**48.40**							
32	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom. (V-III No-5.3,P No-29 of PWD BCSR 2021-22)								
		Sqm							
	Tack Coat For DBM								
	Ch -0-300		1	50.00	9.00		450.00		
	Tack Coat For BC								
	Ch -0-300		1	100.00	9.00		900.00		
							1,350.00	**13.20**	**17,820.00**
	Basic rate	12.00							
	Area Weightage 10%	1.20							
	Final Rate	**13.20**							
33	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (V-III No-5.12 C ,P No-33 of PWD BCSR 2021-22)								
		Cum							
	For Laying DBM								
	Ch -0-300		1	50.00	9.00	0.05	22.50		
							22.50	**10877.90**	**2,44,752.75**
	Basic rate (Issue Rate)	9,889.00							
	Area Weightage 10%	988.90							
	Sub Total	**10,877.90**							
34	Providing and laying Bituminous Concrete with not less than 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.78% Bitumen and waste plastic 8% of Bitumen of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III No-5.29 B,P No-40 of PWD BCSR 2021-22)								
		Cum							
	For Laying BC								

Sl No	Description of Items	Unit	No	Length m	Width m	Depth m	Quantity	Rate	Amount
	Ch -0-300		1	100.0	9.0	0.04	36.00		
							36.00	**11740.30**	**4,22,650.80**
	Basic rate (Issue Rate)	10,673.00							
	Area Weightage 10%	1,067.30							
	Sub Total	**11,740.30**							
35	Providing and fixing Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (V-II I No-11.25.2 - 1 ,P No-82 of PWD BCSR 2021-22)								
		Kg				kg			
			1	15.00	1.50	100.00	2,250.00		
			1	10.00	1.50	100.00	1,500.00		
							3,750.00	**118.80**	**4,45,500.00**
	Basic rate	108.00							
	Area Weightage 10%	10.80							
	Total	**118.80**							
						A.Total Construction Cost			**33,89,622.53**
							18% Applicable GST		**6,10,132.06**
						Miscellaneous and rounding off			245.42
								Total	**40,00,000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2020-21 and Data Rates

Assistant Engineer
ward No. 05

Asst. Executive Engineer,
Byatarayanapura Sub Division
BBMP Bangalore

Executive Engineer,
Byatarayanapura Division
BBMP Bangalore

Administrative Approval
Accorded For RSHO slab only
Head of A/C
CER NO : 14 Dt: 20/8/2022

Technical Sanction
Accorded For RSHO slab only
Head of A/C
CER NO : 52 Dt: 20.08.22